

AMENDMENTS TO THE CLAIMS

1-15. (Cancelled)

16. (Currently Amended) A method for infusing a fluid in a living body, said method comprising:

providing a reservoir, a flow restrictor, and a valve in an implantable drug pump device in a configuration adapted for implantation in a living body;

transiently storing a fluid infusate in said reservoir for transmission to a delivery site after the implantable drug pump device has been implanted in a patient;

disposing limiting a flow rate of the fluid infusate using said flow restrictor disposed in a fluid path between said reservoir and said delivery site;

determining [[a]] transient pressure differentials across relative to said flow restrictor by a controller component of the implantable drug pump;

determining whether an occlusion is present in the flow path using the transient pressure differentials; and

controlling said valve disposed in said fluid path between said reservoir and said delivery site to control infusate output from said reservoir to said delivery site as a function of said transient pressure differentials across said flow restrictor, wherein the controlling said valve automatically responds to a detection of an occlusion by altering a unit dose period for delivery of the fluid infusate.

17. (Currently Amended) The method of claim 16, wherein controlling said valve comprises:

subdividing a flow period into smaller unit dose periods over which ~~said a~~ pressure differential across said flow restrictor is likely to remain constant and controlling said valve to deliver a total dose of said infusate through a series of sequential said unit dose periods.

18. (Original) The method of claim 17, wherein said unit dose periods are selected at least in part to reduce battery consumption.

19. (Original) The method of claim 17, wherein said unit dose periods are selected so that an open/close rate of said valve is pharmacologically insignificant.

20. (Currently Amended) The method of claim 16, further comprising:
providing an alert with respect to overfilling of said reservoir using ~~said a~~ pressure differential across said flow restrictor.

21. (Currently Amended) The method of claim 16, further comprising:
providing an alert with respect to depletion of said reservoir using ~~said a~~ pressure differential across said flow restrictor.

22. (Currently Amended) The method of claim 16, further comprising:
determining a rate at which ~~said a~~ pressure differential across said flow restrictor changes.

23. (Currently Amended) The method of claim 22, wherein controlling said valve comprises:
altering timing of a period of said valve being opened as a function of said rate at which ~~said a~~ pressure differential across said flow restrictor changes.

24. (Original) The method of claim 16, further comprising:
determining a temperature of said infusate, wherein controlling said valve comprises controlling infusate output from said reservoir as a function of said temperature of said infusate.

25-34. (Cancelled)